

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A metallic ~~wire~~ lead comprising:
 an outer shell made of a first biocompatible metal; ~~and~~
 a plurality of wire elements disposed within said shell, each of said wire elements comprising a metallic shell made of a second biocompatible metal, said metallic shell filled with a third biocompatible metal, said plurality of wire elements being compacted together whereby substantially no voids exist within said outer shell; and
 an insulation layer disposed around said outer shell.

2. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein ~~said first metal is biocompatible~~ said insulation layer includes at least one contact section in the form of a void in said insulation layer.

3. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein said first metal ~~[[is]]~~ comprises platinum.

4. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein said third metal ~~[[is]]~~ comprises silver.

5. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein said second metal is ~~ASTM Standard F562~~ comprises a cobalt-nickel-chromium alloy.

6. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein said wire elements are twisted together into a bundle.

7. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein said plurality of wire elements includes at least one hollow tube.

8. (currently amended): The lead according to ~~claim 1~~ Claim 1, wherein at least two of said plurality of metallic shells are filled with different metals.

9. (currently amended): The lead according to ~~claim 8~~ Claim 8, wherein one of said metallic shells is filled with silver and another of said metallic shells is filled with tantalum.

10. (canceled)

11. (currently amended): The lead according to ~~claim 1~~ Claim 1, including a second outer shell covering said outer shell, said second outer shell made of a fourth metal.

12. (currently amended): A method of making a lead, said method comprising the steps of:

providing a first tube made of a first biocompatible metal, ~~said the~~ first tube having a first diameter;

forming a plurality of wire elements into a bundle, ~~said the~~ wire elements each comprising a metallic shell made of a second biocompatible metal, ~~said the~~ metallic shell filled with a third biocompatible metal;

inserting ~~said the~~ bundle into ~~said the~~ first tube to form an assembly; and
thereafter drawing ~~said the~~ assembly down to form a wire with a second diameter less than said first diameter; and.

applying an insulation layer to the assembly.

13. (currently amended): The method according to ~~claim 12 wherein said first metal is biocompatible~~ Claim 12, further comprising the additional step of forming at least one contact section in the form of a void in the insulation layer.

14. (currently amended): The method according to ~~claim 12~~ Claim 12, wherein at least two of ~~said the~~ wire elements are filled with different metals.

15. (currently amended): The method according to ~~claim 12~~ Claim 12, wherein ~~said the~~ third metal ~~[[is]]~~ comprises silver.

16. (currently amended): The method according to ~~claim 12~~ Claim 12, wherein ~~said the~~ first metal ~~[[is]]~~ comprises platinum.

17. (currently amended): The method according to ~~claim 12~~ Claim 12, wherein ~~said the~~ second metal ~~is ASTM Standard F562~~ comprises a cobalt-nickel-chromium alloy.

18. (currently amended): The method according to ~~claim 12~~ Claim 12, further comprising the additional step of, prior to ~~said the~~ drawing step, providing a second metallic tube made of a fourth metal and inserting ~~said the~~ assembly into ~~said the~~ second metallic tube.

19. (currently amended): The method according to ~~claim 12 wherein said method further includes the step of coating said first tube with an electrically non-conductive insulating material~~ Claim 12, further comprising the additional step of, prior to said inserting step, twisting the bundle.

20-22. (cancelled)

23. (currently amended): A method of making a composite wire, said method comprising the steps of:

providing a first tube made of a first biocompatible metal, ~~said the~~ first tube having a first diameter;

forming a plurality of wire elements into a bundle, at least one of ~~said the~~ wire elements made of a second biocompatible metal, at least one of ~~said the~~ wire elements made of a third biocompatible metal;

twisting the bundle;

inserting said the bundle into said the first tube to form an assembly; and thereafter drawing said the assembly down to form a wire having a second diameter.

24. (currently amended): The method of ~~claim 23~~ Claim 23, wherein at least one said of the wire elements is comprised of strands.

25. (currently amended): The ~~wire according to claim 23~~ method of Claim 23, wherein at least one of said the wire elements comprises a tube made of said the second metal and said the tube is filled with a fourth biocompatible metal.

26. (new): The method of Claim 12, wherein said drawing step comprises drawing the assembly down to form a wire having a second diameter less than the first diameter with substantially no voids existing within the tube.

27. (new): The method of Claim 23, wherein said drawing step comprises drawing the assembly down to form a wire having a second diameter less than the first diameter with substantially no voids existing within the tube.

28. (new): The method of Claim 23, further comprising the additional step, after said drawing step, of applying an insulation layer to the assembly.

29. (new): The method of Claim 28 further comprising the additional step of forming at least one contact section in the form of a void in the insulation layer.

30. (new): A metallic wire comprising:
an outer shell comprising platinum; and
a plurality of first wire elements disposed within said outer shell, at least one of said first wire elements being a tube comprising a cobalt-nickel-chromium alloy, said tube filled with a metal comprising silver.

31. (new): The wire of Claim 30, wherein said plurality of first wire elements are compacted together whereby no voids exist within said outer shell.

32. (new): The wire of Claim 30, wherein said first wire elements are twisted to form a twisted bundle.

33. (new): The wire of Claim 30, further comprising at least one second wire element disposed within said outer shell, said second wire element comprising tantalum.

34. (new): The wire of Claim 30, further comprising at least one second wire element disposed within said outer shell, said second wire element being a hollow tube comprising a cobalt-nickel-chromium alloy.

35. (new): The wire of Claim 34, further comprising a fiber optic element disposed within said hollow tube.

36. (new): The wire of claim 30, further comprising an additional outer shell, said additional outer shell comprising a cobalt-nickel-chromium alloy.

37. (new): The wire of Claim 36, further comprising at least one second wire element disposed within said outer shells, said second wire element comprising tantalum.

38. (new): The wire of Claim 36, further comprising at least one second wire element disposed within said outer shells, said second wire element being a hollow tube comprising a cobalt-nickel-chromium alloy.

39. (new): The wire of Claim 30, wherein said outer shell further comprises iridium.